

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

DATE MAILED: 11/02/2005

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/765,129	01/28/2004	Yoshiyuki Shibahara	HITA.0500 2247		
7590 11/02/2005			EXAMINER		
REED SMITH LLP			COX, CASSANDRA F		
Suite 1400 3110 Fairview Park Drive			ART UNIT	PAPER NUMBER	
Falls Church, VA 22042			2816		

Please find below and/or attached an Office communication concerning this application or proceeding.

					<u> </u>		
		Application	No.	Applicant(s)			
Office Action Summary		10/765,129		SHIBAHARA ET A	L.		
		Examiner		Art Unit			
		Cassandra C		2816			
Period fo	The MAILING DATE of this communica or Reply	tion appears on the c	over sheet with the d	correspondence ad	dress		
THE - Exte after - If the - If NO - Failt Any	MAILING DATE OF THIS COMMUNICA insions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communi- e period for reply specified above is less than thirty (30) do Define the period for reply is specified above, the maximum statute are to reply within the set or extended period for reply will reply received by the Office later than three months after led patent term adjustment. See 37 CFR 1.704(b).	ATION. FOR 1.136(a). In no event, cation. ays, a reply within the statutor pry period will exply and will exply and will exply statute, cause the applicate.	however, may a reply be tir y minimum of thirty (30) day pire SIX (6) MONTHS from ion to become ABANDONE	mely filed ys will be considered timely the mailing date of this co ED (35 U.S.C. § 133).			
Status							
1)🖂	Responsive to communication(s) filed of	on <u>09 August 2005</u> .					
2a)□	This action is FINAL . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)⊠ 6)⊠	Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) 1,4 and 11 is/are withdrawn from consideration. Claim(s) 2,5-10 and 13-20 is/are allowed. Claim(s) 3,12 and 21 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.						
Applicat	ion Papers						
10)⊠	The specification is objected to by the E The drawing(s) filed on 28 January 200 Applicant may not request that any objectio Replacement drawing sheet(s) including the The oath or declaration is objected to by	$\frac{4}{3}$ is/are: a) \square accept in to the drawing(s) be the correction is required	neld in abeyance. Seif the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CF	FR 1.121(d).		
Priority (under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachmen	• •						
	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-	4) -948)	Interview Summary Paper No(s)/Mail Da				
3) 🔲 Infori	mation Disclosure Statement(s) (PTO-1449 or PTor No(s)/Mail Date	O/SB/08) 5)	Notice of Informal F		-152)		

Art Unit: 2816

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 3, 12, and 21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 3 and 12 are indefinite because the claims are misdescriptive. The claims recite a loop bandwidth selector as a separate element. It appears to the examiner from review of the specification, drawings, and further clarification by attorney Marquez on 02/03/05 that the loop bandwidth selector is not a separate element, but a function of the combination of the charge pump and the control circuit. Therefore, the recitation of the phase locked loop further comprising "a loop bandwidth selector" is redundant. It appears to the examiner that the applicant is trying to further describe a function of the control circuit and the charge pump. The claims should be rewritten to more clearly show that the control circuit and charge pump actually change the loop bandwidth (see applicant's specification page 14, lines 11-12 and page 15, lines 1-5). Correction or clarification is required.

Claim 21 is also rejected due to the limitations of the base claim and any intervening claims.

Application/Control Number: 10/765,129 Page 3

Art Unit: 2816

Allowable Subject Matter

3. Claim 3 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

- 4. Claims 2, 5-10, and 13-20 are allowed.
- 5. Claims 12 and 21 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- The following is an examiner's statement of reasons for allowance: Claims 2, 5-10, and 13-20 (and claim 3 if amended to overcome the 112 rejection) are allowed because the closest prior art of record fails to disclose a circuit as shown in Figure 4 further comprising a controller (15) which adjusts a phase error between the first modulator (MD1) and the second modulator (MD2) in combination with the rest of the limitations of the base claims and any intervening claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

7. The following is a statement of reasons for the indication of allowable subject matter: Claims 12 and 21 would be allowable because the closest prior art of record fails to disclose a circuit as shown in Figure 13 wherein the circuit also comprises an amplifier (AMP) and a control circuit to provide a loop bandwidth control signal (CUR) an On/Off signal (PAON), a reference signal (REF), and a baseband signal (TX DATA)

Application/Control Number: 10/765,129

Art Unit: 2816

in combination with the rest of the limitations of the base claims and any intervening

claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Cassandra Cox whose telephone number is 571-272-

1741. The examiner can normally be reached on Monday-Thursday from 7:00 AM to

4:30 PM and on alternate Fridays from 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

CC

October 29, 2005

Page 4

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800